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## NEW BOOKS.

**Infinitesimal Calculus.** By F. S. CAREY. New York: Longmans, Green and Company. Section II. Pp. 221. Price \$3.00.

The first section of this work, which was reviewed in an earlier issue, closed with Chapter XI. and this section begins with Chapter XII. on exponential and hyperbolic functions, inverse circular and hyperbolic functions. Chapter XIII. treats of the motion of a particle along an axis and Chapter XIV. of definite integrals and some general theorems. The six remaining chapters deal with polar co-ordinates, curvature, partial differentiation, double integration, expansion in power series, curve tracing, envelopes, evolutes, roulettes, differential equations, graphics and nomography.

**The Geometrical Sections of Isaac Barrow.** Translated with Notes by J. M. CHILD. Chicago: The Open Court Publishing Company. Pp. 218. Price \$1.25.

The first surprise for the reader of this book will be in the opening paragraph which is "Isaac Barrow was the first inventor of the Infinitesimal Calculus; Newton got the main idea of it from Barrow by personal communication; and Leibnitz also was in some measure indebted to Barrow's work, obtaining confirmation of his own original ideas, and suggestions for their further development, from the copy of Barrow's book that he purchased in 1673." The second surprise will probably be when he finds how convincing the facts are.

The volume is number 3 of the *Open Court Classics of Science and Philosophy* and contains a portrait of the author. The translation is from a first edition copy and contains much added material in the introduction and notes.

**Contributions to the Founding of the Theory of Transfinite Numbers.** By GEORG CANTOR. Translated and provided with an Introduction and Notes by PHILIP E. B. JOURDAIN. Chicago: The Open Court Publishing Co. Pp. 211. Price \$1.25 net.

This is the first number in the *Open Court Classics of Science and Philosophy* and besides Cantor's two classic memoirs contains a very illuminating introduction by Mr. Jourdain. It should prove of great value as an introduction to the study of the subject.

**William Oughtred.** A Great Seventeenth-Century Teacher of Mathematics. By FLORIAN CAJORI. Chicago: The Open Court Publishing Co. Pp. 100. Price \$1.00 net.

Oughtred was not a mathematics teacher but, like many another Englishman, he was a minister of the gospel who was much interested